

Patent Claims

1. Housing closing cover (1, 10, 15, 18) for detachable, fluid-tight attachment on a combustion engine with an add-on part (24) in built-in condition spanning the cover and connected tightly with the housing, consisting of a single-layer metallic or polymer carrier element (2) with an opening (25) for the add-on part (24), whereby a seal (23) is configured in the opening (25) that has an axial (3, 11) sealing lip (5, 12, 16, 19) spanning the edge (26) of the opening (25) and a radial spanning sealing lip for sealing the add-on part (24) and the radial spanning sealing lip (5, 12, 16, 19) is kept angular and radially flexible towards the carrier element (2) in the opening (25).
2. Housing closing cover according to claim 1 is distinguished by the fact that the seal (23) is configured between the radial and axial sealing lip (3, 11, 5, 12, 16, 19) of a fusion zone (4, 13), which is formed like a wave and acts like a gaiter seal type.
3. Housing closing cover according to claim 1 and 2 is distinguished by the fact that the carrier element (2) is axially angled at the edge (26), directing the angle counter to the axial sealing lip (3,11).
4. The housing closing cover according to claims 1 to 3 is distinguished by the fact that the fusion zone (4, 13) has a tapering allowing for improved angle and radial mobility.
5. Housing closing cover according to claims 1 to 4 is distinguished by the fact that a rotating spring ring (14) is configured on the exterior periphery of the radial sealing lip (5, 12, 16, 19).
6. Housing closing cover according to claims 1 to 4 is distinguished by the fact that rotating stiff ring (20) is configured on the exterior periphery of the radial sealing lip (5, 12, 16, 19).

7. Housing closing cover according to claims 1 to 6 is distinguished by the fact that a stiff ring (17) is molded into the radial sealing lip (5, 12, 16 19).

8. Housing closing cover according to claims 1 to 7 is distinguished by the fact that the fusion zone (4, 13) consists of a material that differs from the sealing lips (3, 5, 11, 12, 16, 19).